

09902420660

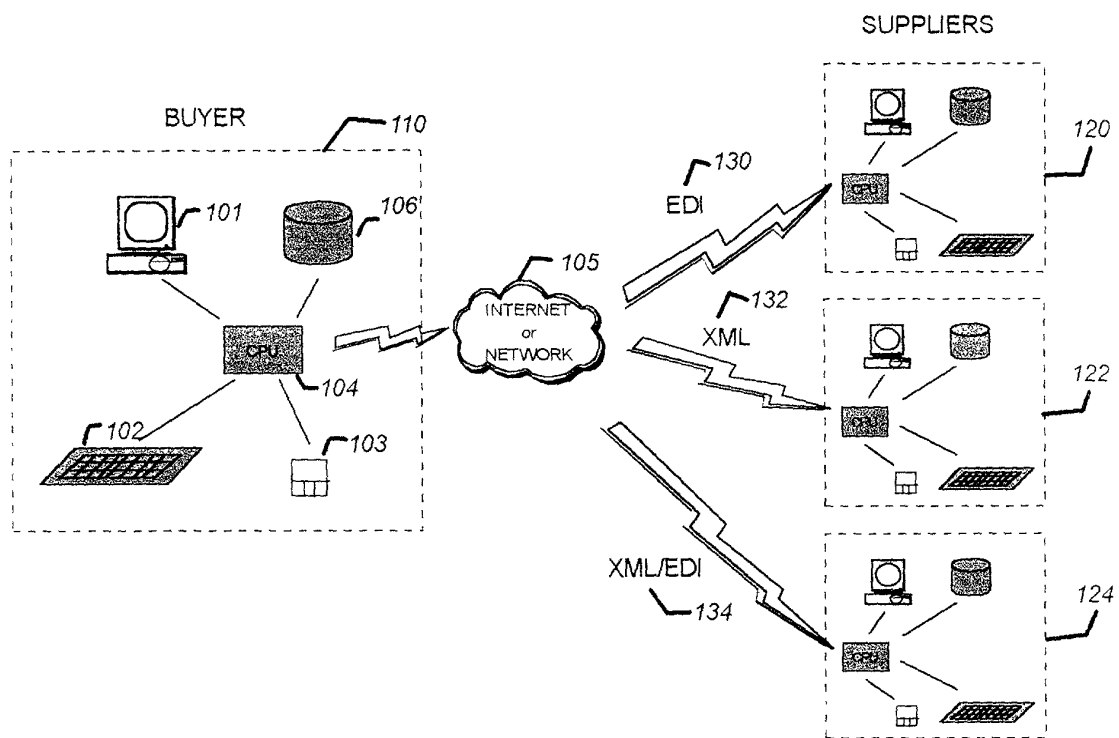


FIG. 1

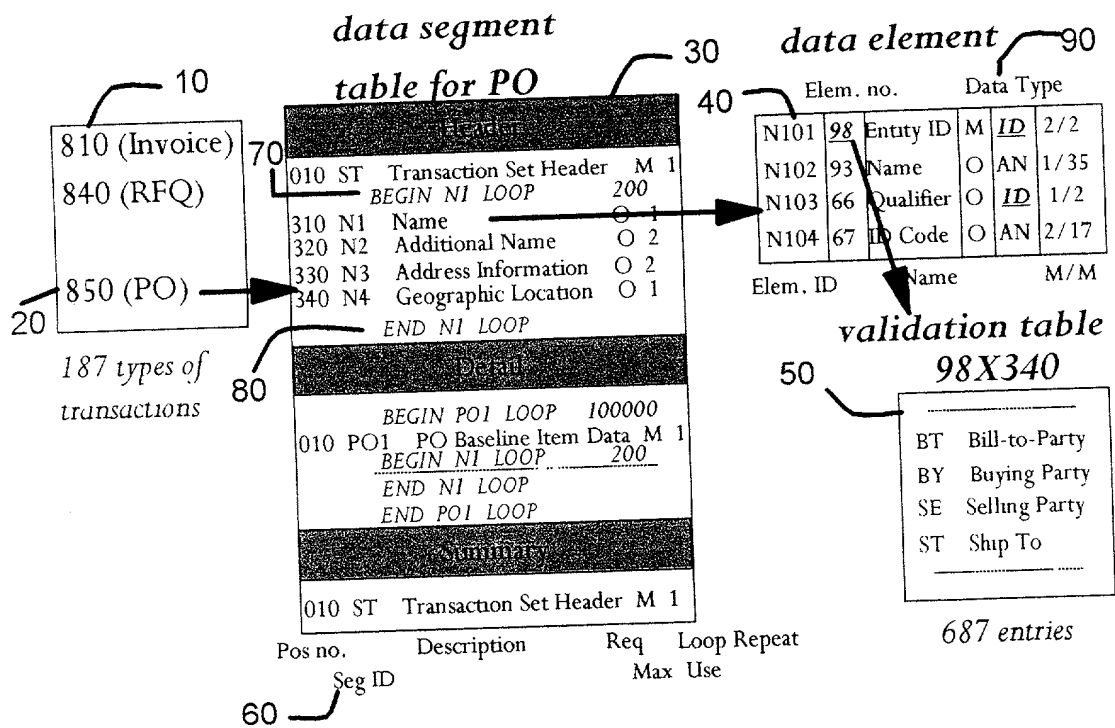


FIG. 2A

96  
ST\*850\*0005@  
TAX\*1234567\*\*\*\*\*1@  
N1\*BT\*IBM\*92\*991@  
N2\*Accounts Payable@  
N3\*PO Box 8099@  
N4\*Endicott\*NY\*13761\*US@  
97  
N1\*SE\*Company A\*92\*IMD12@  
N3\*123 Street B@  
N4\*T City\*MN\*55455@  
PO1\*00001\*3000\*EA\*2.5\*PE@  
CTT\*1@  
SE\*12\*0005@

92

# Data Segment Name

- 93 TAX: Tax Reference
- 95 N1: Name
- N2: Additional Name
- N3: Address Info
- N4: Geographic Location
- PO1: Base Line Item
- CTT: Transaction Totals

# Data Element Name

- 94 BT: Bill-To Party
- SE: Selling Party

FIG. 2B

<!DOCTYPE transactionSet [ 200  
 <!ELEMENT transactionSet (name, (loop|segment)\* ) >  
 <!ATTLIST transactionSet  
     code CDATA #REQUIRED  
     version CDATA #REQUIRED  
     standard (X12| EDIFACT) "X12"  
 >  
     210  
 <!ELEMENT loop (( loop | segment)\* ) >  
 <!ATTLIST loop  
     code CDATA #REQUIRED  
 >  
         220  
 <!ELEMENT segment (name, element\*) >  
 <!ATTLIST segment  
     code CDATA #REQUIRED  
 >  
             230  
 <!ELEMENT element (name, value) >  
 <!ATTLIST element  
     code CDATA #REQUIRED  
 >  
                 240  
 <!ELEMENT name (#PCDATA) >  
                 250  
 <!ELEMENT value (#PCDATA) >  
 <!ATTLIST value  
     code CDATA #IMPLIED  
 >  
 ]>

FIG. 2C

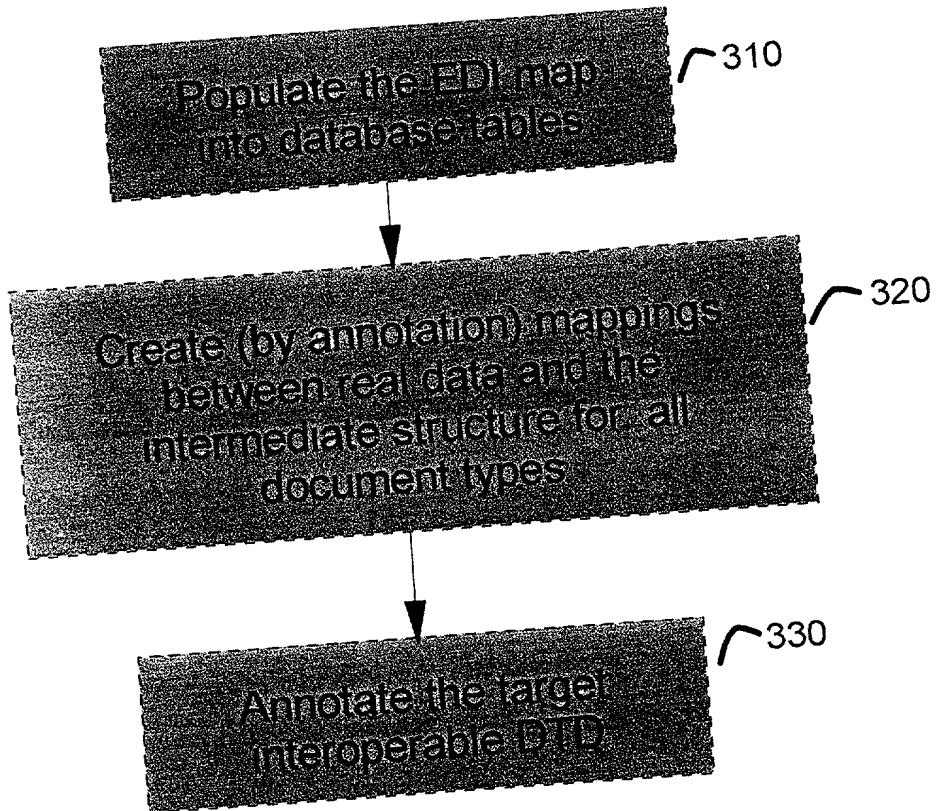


FIG. 3

FIG. 4A

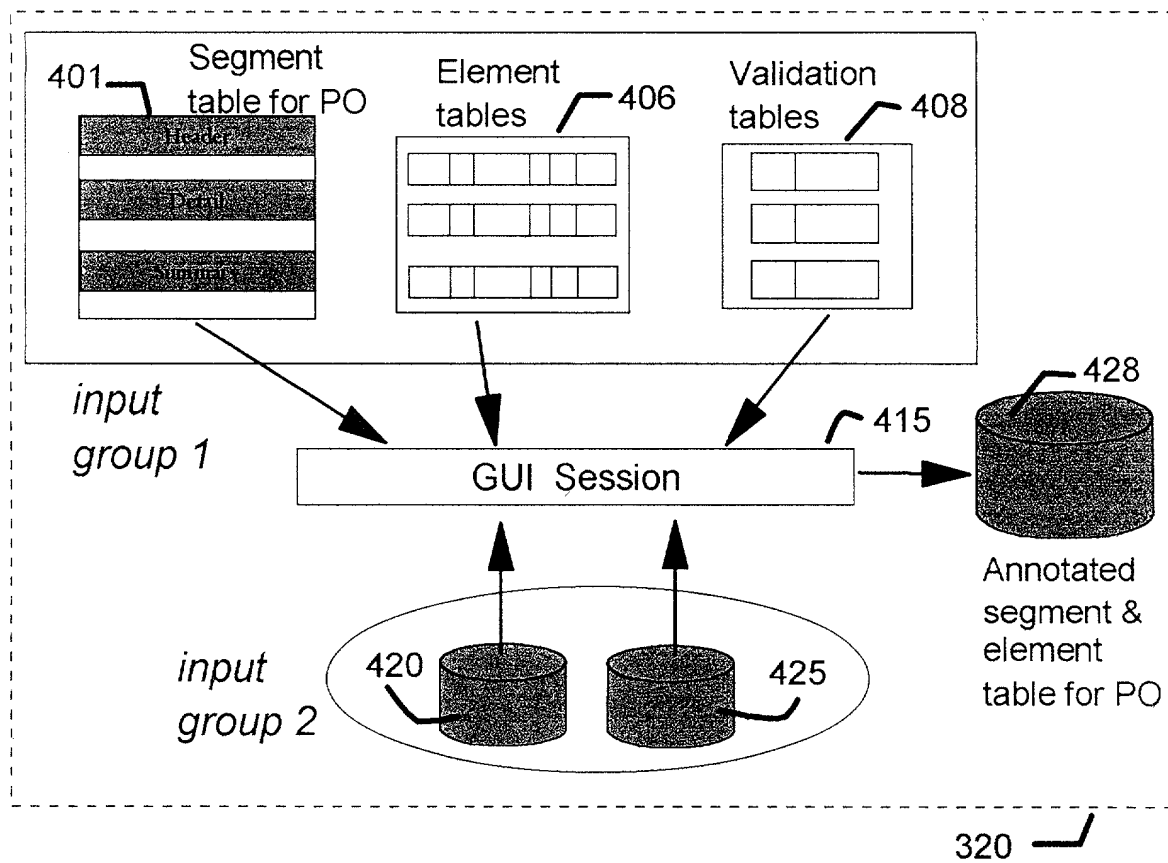


FIG. 4B

```

450 <!DOCTYPE transactionSet [
460
<ELEMENT transactionSet (name:: w:=<getDocumentType(in1)>,
(loop:: p:=<x.code>|segment:: p:=<x.code>) :x.choice *
:x:=SQL("SELECT * FROM EDI WHERE map='$in1' ORDER BY pos")) > :: dummy:=<initValue(in0)>
458
<!ATTLIST transactionSet
code CDATA #REQUIRED : getDocumentNumber(in1) 456
version CDATA #REQUIRED : "004010" 459
standard (X12| EDIFACT) "X12"
>
451 <ELEMENT loop (( loop:: p:=<concat(p, "@", x.code)> |
segment:: p:=<concat(p, "@", x.code)> ) : x.choice *
:x:=SQL("SELECT * FROM EDI WHERE map='$x.code' ORDER BY pos")) >
<!ATTLIST loop
code CDATA #REQUIRED : x.name
>
452 <ELEMENT segment (name:: w:=<x.name>,
element* :: y:=row(EDI, <map>, <x.code>)) >
<!ATTLIST segment
code CDATA #REQUIRED : x.code
>
453 <ELEMENT element (name:: w:=<y.name>, value) >
<!ATTLIST element
code CDATA #REQUIRED : y.code
>
454 <ELEMENT name (#PCDATA w) >
474
455 <ELEMENT value (#PCDATA : value4Element(val, y.code, y.type)) >
:: val:=<getEDIValue(y.code, p)> 470
<!ATTLIST value
code CDATA #IMPLIED : id4Element(val, y.type)
472
>
]>
430

```

FIG. 4C



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	500 MAP	502 CODE	504 POS	506 CHOICE	508 TYPE	510 NAME
420	TS850	ST	0010	segment		Transaction Set Header
	TS850	BEG	0020	segment		Beginning Segment for PO
	TS850	REF	0050	segment		Reference Numbers
	TS850	LOOP_N1	0301	loop		N1
	TS850	LOOP_PO 1	1010	loop		PO1
	TS850	CTT	2010	segment		Transaction Totals
	TS850	SE	2030	segment		Transaction Set Trailer
	LOOP_N1	N1	0310	segment		Name
	LOOP_N1	N2	0320	segment		Additional Name Information
	LOOP_N1	N3	0330	segment		Address Information
	LOOP_N1	N4	0340	segment		Geographic Location
	LOOP_PO 1	PO1	1010	segment		Baseline Item Data
	LOOP_PO 1	LOOP_PID	1050	loop		PID
	LOOP_PID	PID	1050	segment		Product/Item Description
515	ST	143		element	ID	Transaction Set ID Code
	ST	329		element	A N	Transaction Set Control Number
	N1	98	517	element	ID	Entity Identifier Code
	N1	93		element	A N	Name
	N1	66		element	ID	ID Code Qualifier
	N1	67		element	A N	ID Code

FIG. 5A

520 ELEMENT 522 524  
 ID CODE VALUE 425

	143	810	X12 Invoice
	143	850	X12 Purchase Order
530	98	BT	Bill-To-Party
		540	550
531	98	BY	Buying Party
		541	551
532	98	SE	Selling Party
		542	552
533	98	ST	Ship To
		543	553
	66	1	D-U-N-S Number, Dun & Bradstreet
	66	8	Vendor UPC Code
	66	9	D-U-N-S+4, D-U-N-S Number with 4 Character Suffix
	66	92	Assigned by Buyer or Buyer's Agent

FIG. 5B

FIG. 5B

610 level	600 segment element/code	602 repeat	604 annotation	606 description	608 label
	1 ST		x:=row(PO,poid,in0)	650 Transaction Set Header	ST
	2 ST01/143		"850"	651 ID Code	ST@143
	2 ST02/329		in0	652 Control Number	ST@329
620	1 LOOP_N1	*	y:=row(company,coid,x.buyer)	N1/BUYER	LOOP_N1
	2 N1			Name	LOOP_N1@N1
	3 N101/98		"BY"	Entity ID	LOOP_N1@N1@98
	3 N102/93		y.name	Name	LOOP_N1@N1@93
	2 N4			Geographic Location	LOOP_N1@N4
	3 N402/156		y.addr	State	LOOP_N1@N4@156
622	1 LOOP_N1	*	y:=row(company,coid,x.seller)	N1/SELLER	LOOP_N1
	2 N1			Name	LOOP_N1@N1
	3 N101/98		"SE"	Entity ID	LOOP_N1@N1@98
	3 N102/93		y.name	Name	LOOP_N1@N1@93
	2 N4			Geographic Location	LOOP_N1@N4
	3 N402/156		y.addr	State	LOOP_N1@N4@156
625	1 LOOP_PO1	*	z:=row(lineitem,poid,in0)	PO1/Line ItemInfo	LOOP_PO1
	2 PO1			Base Line Item	LOOP_PO1@PO1
	3 PO101/350		z.prodid	ID	LOOP_PO1@PO1@350
	3 PO102/330		"1"	Quantity	LOOP_PO1@PO1@330
	3 PO104/212		z.amount	Unit Price	LOOP_PO1@PO1@212
627	2 LOOP_PID	*	w:=row(product,prodid,z.prodid)	PID/Descriptions	LOOP_PO1@LOOP_PID
	3 PID			Product/Item Description	LOOP_PO1@LOOP_PID@PID
	4 PID01/349		"F"	Item Description Type	LOOP_PO1@LOOP_PID@PID@349
	4 PID05/352		w.name	Description	LOOP_PO1@LOOP_PID@PID@352

428

FIG. 6

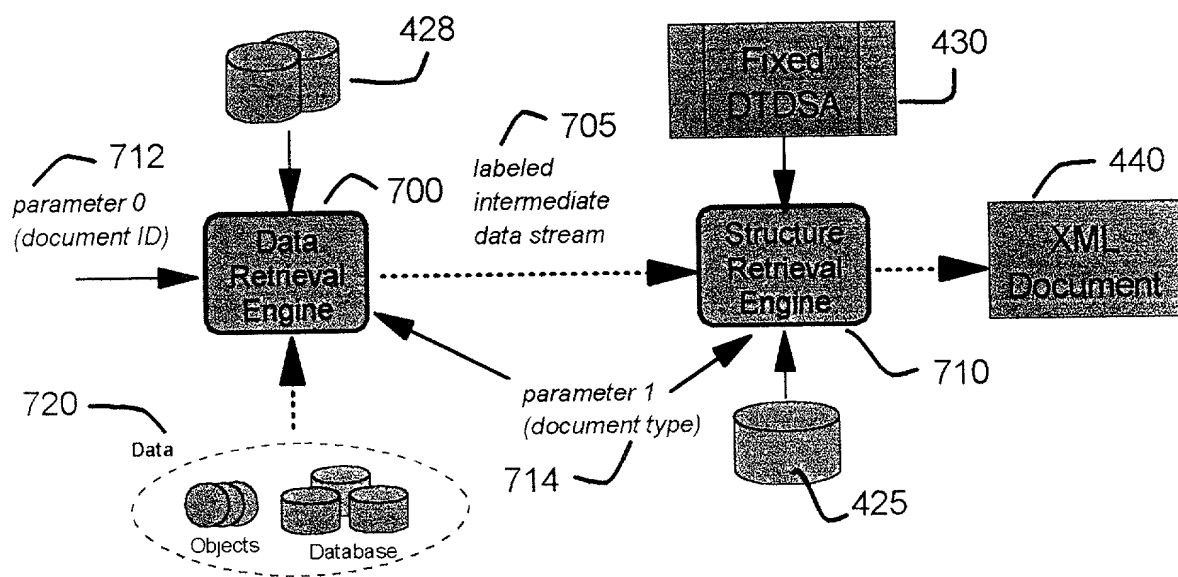


FIG. 7A

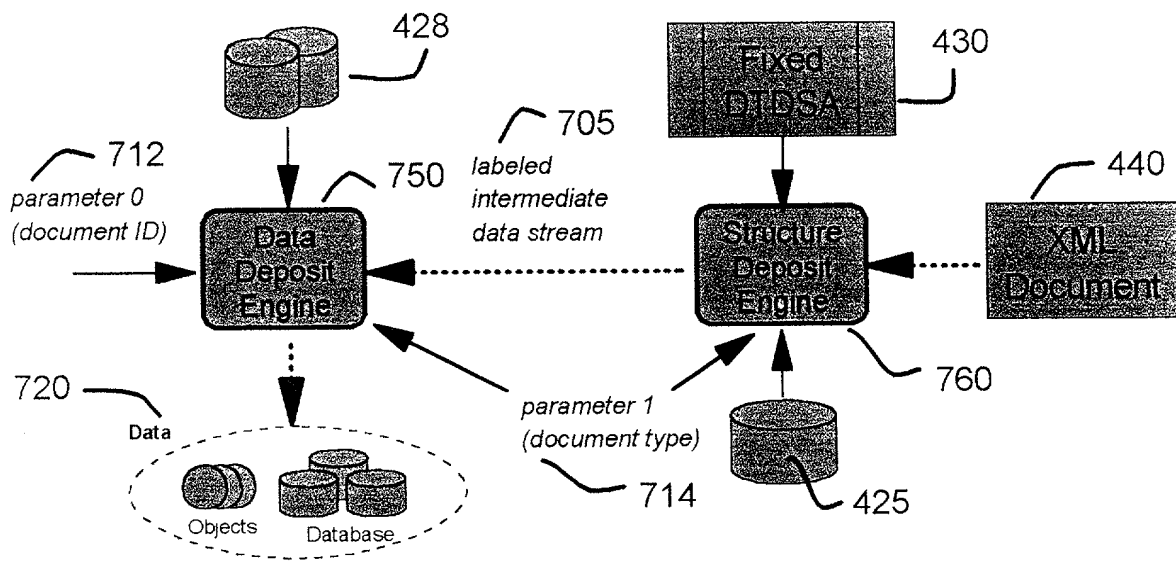


FIG. 7B

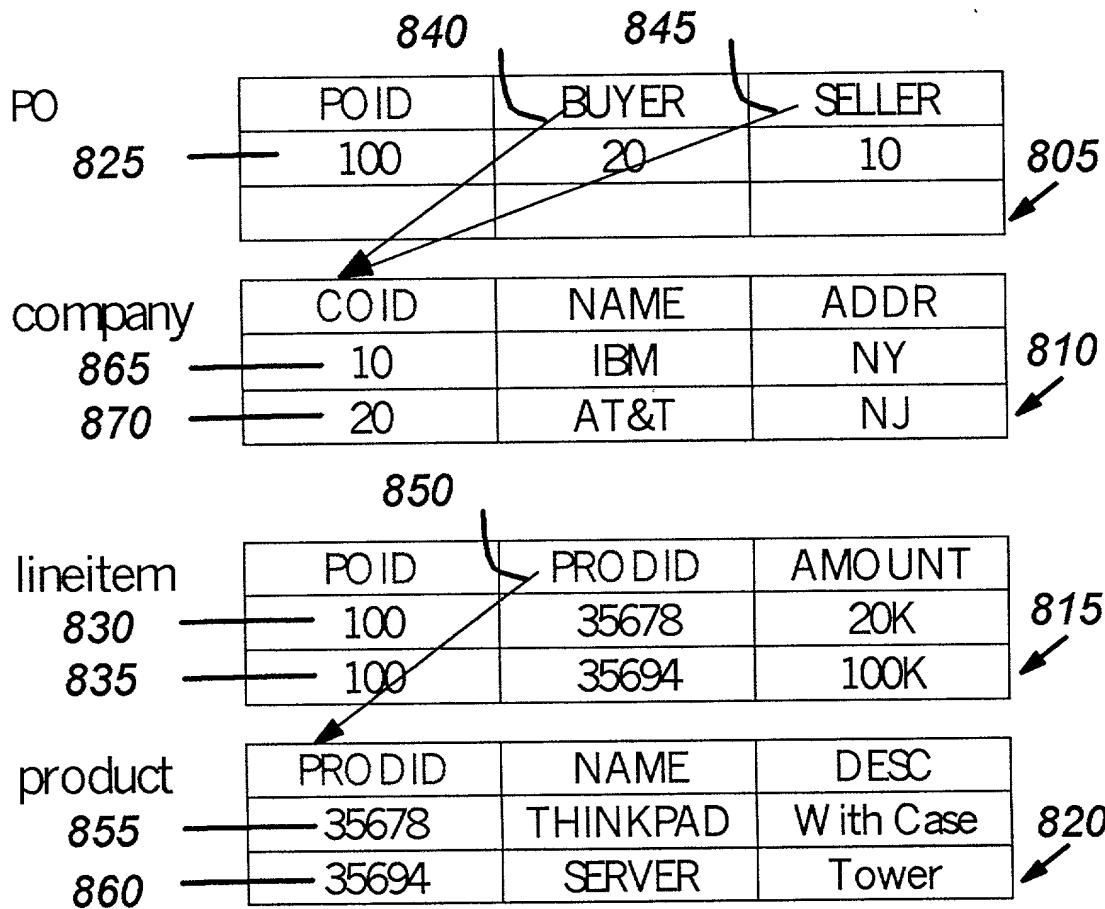


FIG. 8A

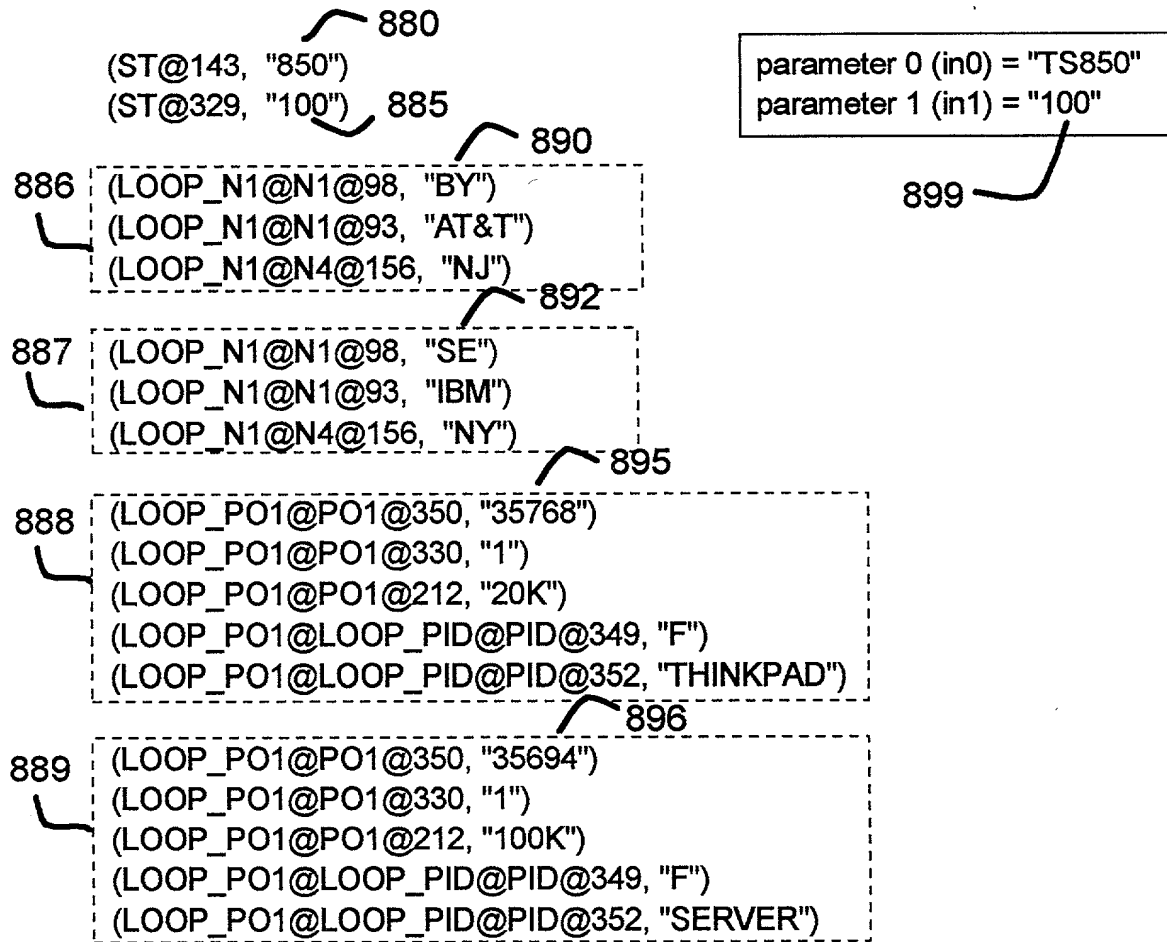


FIG. 8B





<segment code='ST'> 650  
 <name>Transaction Set Header</name>  
 <element code='143'> 651  
 <name>ID Code</name> 652  
 <value code='850'>X12 Purchase Order</value>  
 </element>  
 <element code='329'>  
 <name>Control Number</name>  
 <value>100</value>  
 </element> 899  
</segment>

800

FIG. 9A

```

<loop code='N1'>
  <segment code='N1'>
    <name>Name</name>
    <element code='98'>
      <name>Entity ID</name> 912
      <value code='BY'>Buying Party</value>
    </element> 910
    <element code='93'>
      <name>Name</name>
      <value>AT&T</value>
    </element>
  </segment>
  <segment code='N4'>
    <name>Geographic Location</name>
    <element code='156'>
      <name>State</name>
      <value>NJ</value>
    </element>
  </segment>
</loop>

```

802

```

<loop code='N1'>
  <segment code='N1'>
    <name>Name</name>
    <element code='98'>
      <name>Entity ID</name> 922
      <value code='SE'>Selling Party</value>
    </element> 920
    <element code='93'>
      <name>Name</name>
      <value>IBM</value>
    </element>
  </segment>
  <segment code='N4'>
    <name>Geographic Location</name>
    <element code='156'>
      <name>State</name>
      <value>NY</value>
    </element>
  </segment>
</loop>

```

804

FIG. 9B

```

<loop code='PO1'>
  <segment code='PO1'>
    <name>Base Line Item</name>
    <element code='350'>
      <name>ID</name>
      <value>35768</value>
    </element>
    <element code='330'>
      <name>Quantity</name>
      <value>1</value>
    </element>
    <element code='212'>
      <name>Unit Price</name>
      <value>20K</value>
    </element>
  </segment>
  <loop code='PID'>
    <segment code='PID'>
      <name>Product/Item Description</name>
      <element code='349'>
        <name>Item Description Type</name>
        <value code='F'>Free-form</value>
      </element>
      <element code='352'>
        <name>Description</name>
        <value>THINKPAD</value>
      </element>
    </segment>
  </loop>
</loop>

```

806

```

<loop code='PO1'>
  <segment code='PO1'>
    <name>Base Line Item</name>
    <element code='350'>
      <name>ID</name>
      <value>35694</value>
    </element>
    <element code='330'>
      <name>Quantity</name>
      <value>1</value>
    </element>
    <element code='212'>
      <name>Unit Price</name>
      <value>100K</value>
    </element>
  </segment>
  <loop code='PID'>
    <segment code='PID'>
      <name>Product/Item Description</name>
      <element code='349'>
        <name>Item Description Type</name>
        <value code='F'>Free-form</value>
      </element>
      <element code='352'>
        <name>Description</name>
        <value>SERVER</value>
      </element>
    </segment>
  </loop>
</loop>

```

808

FIG. 9C

<!DOCTYPE BUYERS [  
 1020— <!ELEMENT BUYERS(buyer)\* :: r:=row(**buyers**)> 1030  
 1021— <!ELEMENT buyer (ID, name, address, itemname, buyDate)> 1010  
 1035— :: x:=row(**company**, <coid>, <field(buyers, buyerid, r)> )>  
 1022— <!ELEMENT ID (#PCDATA : field(buyers, buyerid, r) )> 1007 1006  
 1023— <!ELEMENT name (#PCDATA : field(company, name, x) )> 1011  
 1024— <!ELEMENT address (#PCDATA : field(company, addr, x) )> 1012  
 1025— <!ELEMENT itemname (#PCDATA : field(buyers, itemname, r) )>  
 1026— <!ELEMENT buyDate (#PCDATA : field(buyers, buyday, r) )> 1008  
 ]> 1040 1009

FIG. 10A

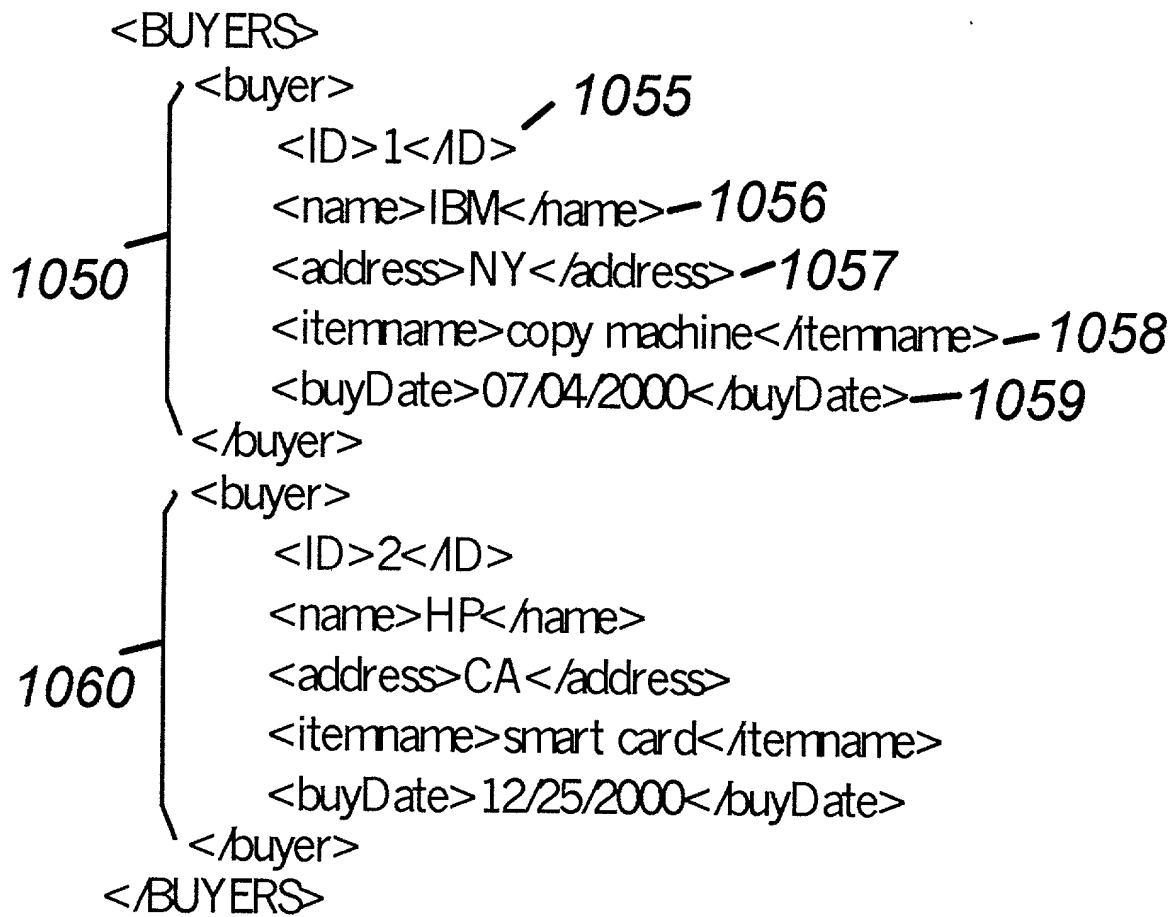


FIG. 10B

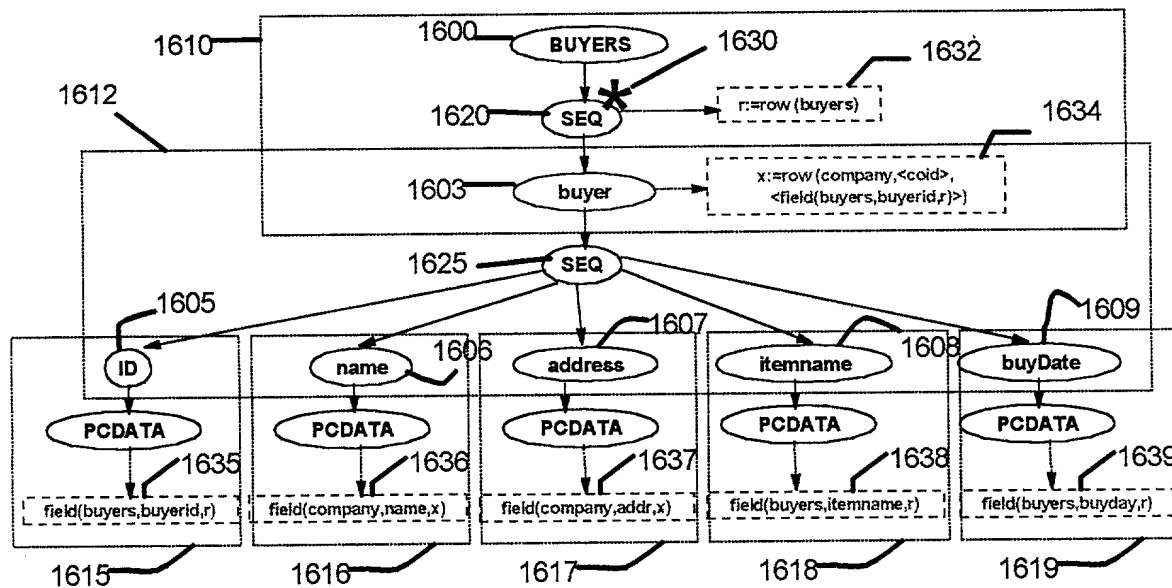


FIG. 11A

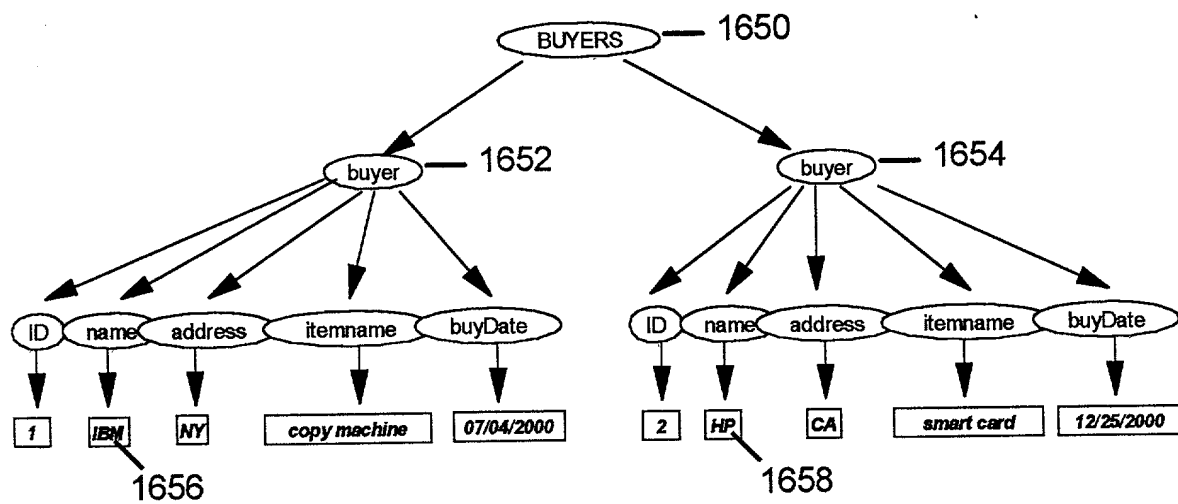


FIG. 11B

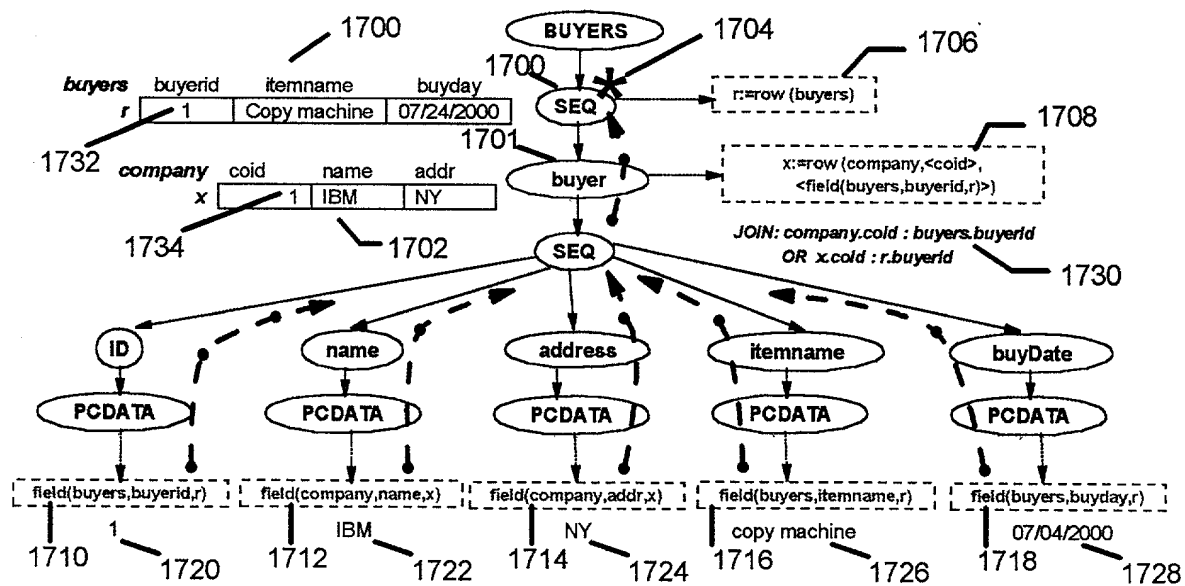


FIG. 12A



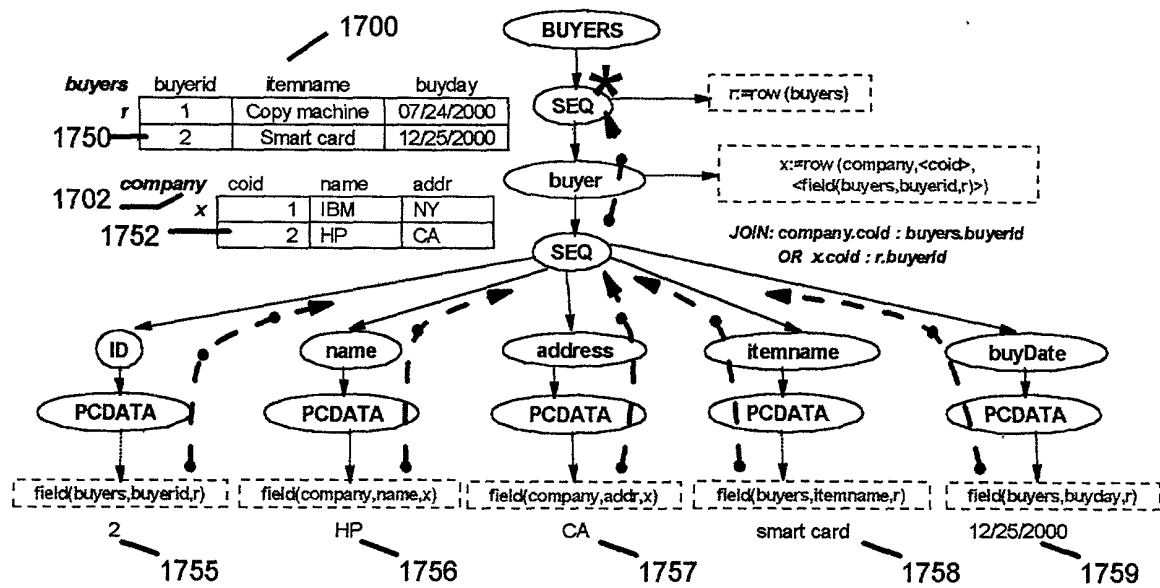


FIG. 12B

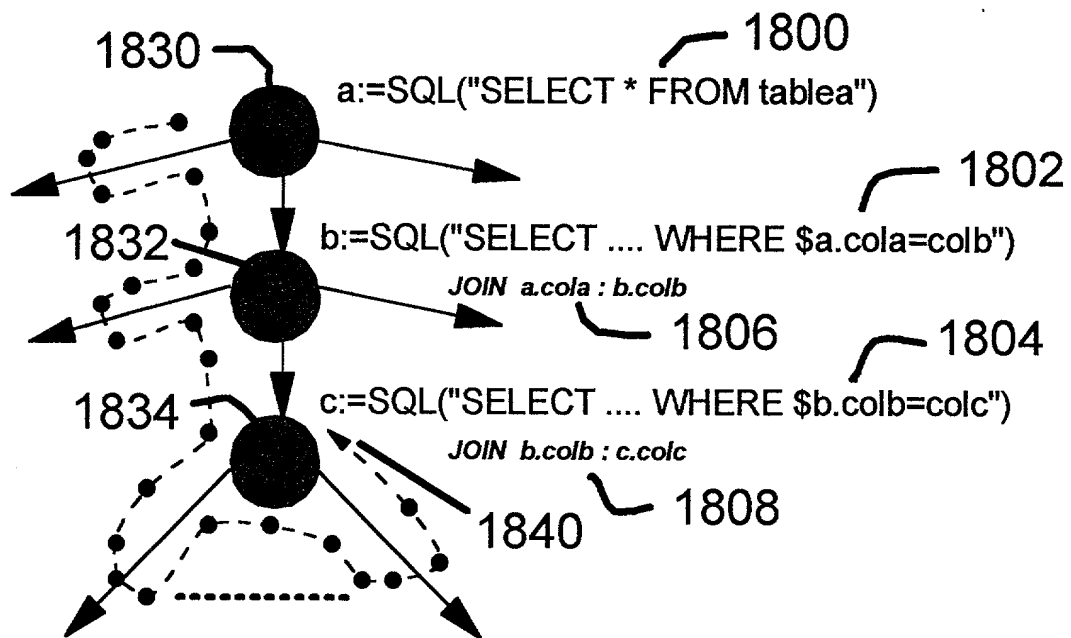


FIG. 13

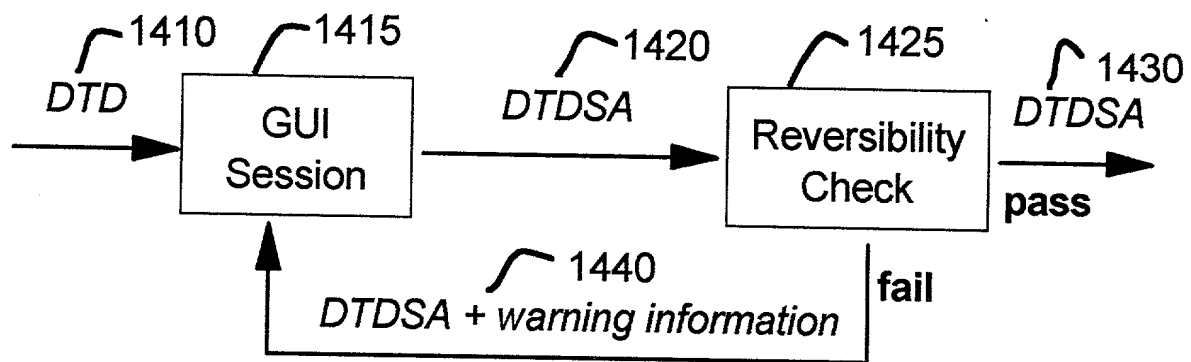


FIG. 14